

Qy 421 LGQHPDYVNTNLRMGVAGLVVLVGLLFEAQSORSLODAAQ 465
 Db 421 LGQHPDYVNTNLRMGVAGLVVLVGLLFEAQSORSLODAAQ 465

RESULT 2

Killer cell inhibitory receptor p91B precursor - mouse
 C/Species: Mus musculus (house mouse)
 C/Date: 18-Mar-1998 #sequence_revision 18-Mar-1998 #text_change 05-Nov-1999
 C/Accession: JCS895
 R/Yamashita, Y.; Fukuta, D.; Tsuji, A.; Nagabukuro, A.; Matsuda, Y.; Nishikawa, Y.; Ohya
 J. Biochem. 123, 358-368, 1998
 A/Title: Genomic structures and chromosomal location of p91, a novel murine regulatory
 A/Reference number: JCS894, MUID:98218758, PMID:9538215
 A/Accession: JCS895
 A/Status: nucleic acid sequence not shown
 A/Molecule type: mRNA
 A/Residues: 1-680 <YAM>
 A/Cross-references: GB:AF041035; NID:92791691; PIDN:AA96927.1; PID:92791692
 C/Comment: This protein function as inhibitory cell-surface molecule against cell activa
 C/Genetics:
 A/Map position: 7
 F/1-23/Domain: signal sequence #status predicted <SIG>
 F/24-118, 119-220, 221-315, 316-418, 419-517, 518-618/Domain: extracellular Ig-like #status
 F/636-674/Domain: transmembrane #status predicted <TM>
 F/675-680/Domain: cytoplasmic #status predicted <CYT>

Query Match

Best Local Similarity 49.9%; Score 1080.5; DB 2; Length 680;
 Matches 230; Conservative 63; Mismatches 151; Indels 17; Gaps 3;

Qy 23 AGHLPEPTLMAEPGVSITIGSPVTLRCQSLQAEHYLYRE-NKSASVWRRIQEPGNQ 81
 Db 220 SGNLQKPTIKAPGVSITIGSPVTLRCQSLQAEHYLYRE-NKSASVWRRIQEPGNQ 81
 Qy 82 FPIPSITWEHAGRYHCQYYSHNSSEYSDPLELVWTG--AYSKPLSLPSPVYTLGGNV 139
 Db 280 FPIPSVTOQHAGRYHCQYYSHNSSEYSDPLELVWTG--AYSKPLSLPSPVYTLGGNV 139
 Qy 140 TLQCVSOVAFDGLTCKEGEDHPORLNSHSHARGMSWALFVGPVSPSRMSYRCAYD 199
 Db 340 TLQCVSOVAFDGLTCKEGEDHPORLNSHSHARGMSWALFVGPVSPSRMSYRCAYD 199
 Qy 200 SNSPYVWSLPSPDLLELVPGVSKKPSLYQPGPMVAPGESLTLCQVSDVGYDRVLYKEG 259
 Db 400 KNTQQLMSVPSNLDQQLILSGLSKPSLTHQGHILDPGMLTLTLCFDMVYDRPALHKG 459
 Qy 260 ERDPLQRPQWOPQAGLSQANFTLGPVSPSHGQYRCYSAHNLSEMSAPSPDLITGQ 319
 Db 460 GADIMQSSOOTDIDGFSVANFTLGYVSSSTGGQYRCYGANHLSSEMSAPSPDLITGQ 319
 Qy 320 FYDRPSLSVQVPVTVAPGKXVTLTLCQSGQFHTLTKGAGHPPLHLRSEHQAQONQAE 379
 Db 520 LPLTPSLSVQPNHTSHSGEVLTLQWMSDVDTFLSKEGSAQPLTLKSKSHDQSGAE 579
 Qy 380 FRMGVPTSAHVGYRCYSSLSNPYLLSLPSPDLLELVASLQ-----HP 425
 Db 580 FMSAVTSHLSGTYRCGADSSFYLLSSASAVELTVSGTSSSMPPRRNPPIPTEN 639
 Qy 426 QDVTVENTLRMGVAGLVVLVGLLFEAQSORSLODAAQ 466
 Db 640 QDVTVENTLRMGVAGLVVLVGLLFEAQSORSLODAAQ 466

RESULT 3

Killer cell inhibitory receptor p91A precursor - mouse
 C/Species: Mus musculus (house mouse)
 C/Date: 18-Mar-1998 #sequence_revision 18-Mar-1998 #text_change 17-Mar-1999
 C/Accession: JCS894
 R/Yamashita, Y.; Fukuta, D.; Tsuji, A.; Nagabukuro, A.; Matsuda, Y.; Nishikawa, Y.; Ohya
 J. Biochem. 123, 358-368, 1998

A/Title: Genomic structures and chromosomal location of p91, a novel murine regulator
 A/Reference number: JCS894, MUID:98218758, PMID:9538215
 A/Accession: JCS894
 A/Status: nucleic acid sequence not shown

Query Match

Best Local Similarity 45.9%; Score 1023.5; DB 2; Length 841;
 Matches 227; Conservative 73; Mismatches 154; Indels 41; Gaps 9;

Qy 23 AGHLPEPTLMAEPGVSITIGSPVTLRCQSLQAEHYLYRE-NKSASVWRRIQEPGNQ 81
 Db 220 SGNLQKPTIKAPGVSITIGSPVTLRCQSLQAEHYLYRE-NKSASVWRRIQEPGNQ 81
 Qy 82 FPIPSITWEHAGRYHCQYYSHNSSEYSDPLELVWTGYS--KPTLSLSPSPVYTLGGNV 139
 Db 280 FPIPSVTOQHAGRYHCQYYSHNSSEYSDPLELVWTGYS--KPTLSLSPSPVYTLGGNV 139
 Qy 140 TLQCVSOVAFDGLTCKEGEDHPORLNSHSHARGMSWALFVGPVSPSRMSYRCAYD 195
 Db 340 TLQCVSOVAFDGLTCKEGEDHPORLNSHSHARGMSWALFVGPVSPSRMSYRCAYD 195
 Qy 196 YAYSNSPYVWSLPSPDLLELVPGVSKKPSLYQPGPMVAPGESLTLCQVSDVGYDRVLYKEG 255
 Db 396 YGFKNAPQQLMSVPSNLDQQLILSGLSKPSLTHQGHILDPGMLTLTLCFDMVYDRPALHKG 455
 Qy 256 YKGERDPLQRPQWOPQAGLSQANFTLGPVSPSHGQYRCYSAHNLSEMSAPSPDLITGQ 315
 Db 456 HKVQADIMQSSOOTDIDGFSVANFTLGYVSSSTGGQYRCYGANHLSSEMSAPSPDLITGQ 315
 Qy 316 ITGQFDRPSLSVQVPVTVAPGKXVTLTLCQSGQFHTLTKGAGHPPLHLRSEHQAQ 375
 Db 516 ITGQFDRPSLSVQVPVTVAPGKXVTLTLCQSGQFHTLTKGAGHPPLHLRSEHQAQ 375
 Qy 376 NOAEPFMPVTSAHVGYRCYSSLSNPYLLSLPSPDLLELVASLQ----- 421
 Db 576 SOAEPFMPVTSAHVGYRCYSSLSNPYLLSLPSPDLLELVASLQ----- 421
 Qy 422 GQHPDYVNTNLRMGVAGLVVLVGLLFEAQSORSLODAAQ 468
 Db 636 GLH--MYKALIGVAVAILFLILFLILRRHGRKRYQVQKEDQLSSGAEPIIT 692
 Qy 469 QDVTVENTLRMGVAGLVVLVGLLFEAQSORSLODAAQ 466
 Db 693 QDVTVENTLRMGVAGLVVLVGLLFEAQSORSLODAAQ 466

RESULT 4

Killer cell inhibitory receptor p91C precursor - mouse
 C/Species: Mus musculus (house mouse)
 C/Date: 18-Mar-1998 #sequence_revision 18-Mar-1998 #text_change 05-Nov-1999
 C/Accession: JCS896
 R/Yamashita, Y.; Fukuta, D.; Tsuji, A.; Nagabukuro, A.; Matsuda, Y.; Nishikawa, Y.; Ohya
 J. Biochem. 123, 358-368, 1998
 A/Title: Genomic structures and chromosomal location of p91, a novel murine regulatory
 A/Reference number: JCS896, MUID:98218758, PMID:9538215
 A/Accession: JCS896
 A/Status: nucleic acid sequence not shown
 A/Molecule type: mRNA
 A/Residues: 1-635 <YAM>
 A/Cross-references: GB:AF041036; NID:92791693; PIDN:AA96928.1; PID:92791694
 C/Comment: This protein function as inhibitory cell-surface molecule against cell acti

PN W09848017-A1.
 XX
 PD 29-OCT-1998.
 XX
 PF 23-APR-1998; 98WO-US008244.
 XX
 PR 24-APR-1997; 97US-00842248.
 XX
 PA (IMMUNEX CORP.
 XX
 PI Cosman DJ;
 XX
 DR WPI; 1998-609990/51.
 DR N-PSDB; AAV69332.
 XX
 PT Leukocyte immunoglobulin-like receptor, LIR, polypeptides - useful, e.g.
 PT for treating autoimmune diseases or disease states associated with
 PT suppressed immune function.
 XX
 PS Claim 4; Page 64-65; 112pp; English.
 XX
 CC This sequence represents a novel leukocyte immunoglobulin-like receptor
 CC (LIR) polypeptide LIR-pmb25. This sequence can be administered
 CC therapeutically to treat disorders associated with insufficient/defective
 CC amounts of LIR polypeptide. LIR-p3g2 and certain other LIR family members
 CC contain cytoplasmic immunoreceptor tyrosine-based inhibitory motifs
 CC (ITIMs). Whilst other LIR family members lack ITIMs. By analogy with the
 CC structure and function of known MHC Class I receptor molecules, LIRs
 CC having ITIMs are inhibitory receptors mediating negative signalling,
 CC whilst those lacking ITIMs are activatory receptors. Failure of a
 CC receptor that mediates negative signalling could result in autoimmune
 CC diseases, whilst failure of a receptor mediating activatory signalling
 CC could result in suppressed immune function. They are also useful to
 CC produce probes for detecting LIR nucleic acids or isolating LIR DNA from
 CC other species
 XX
 SQ Sequence 439 AA;
 Query Match 63.7%; Score 1754; DB 2; Length 439;
 Best Local Similarity 81.3%; Pred. No. 5,4e-126;
 Matches 343; Conservative 18; Mismatches 59; Indels 2; Gaps 2;
 QY 1 MPTILTVLICTGLSGPRTTHVQAGHLPKPTLMAEPGSIYIOGSPVTLRCQSGIAQAEYHL 60
 DB 1 MPTILTVLICTGLSLDPRTHVQAGLPKPTLMAEPGSIYIOGSPVTLRCQSGLETQYHL 60
 QY 61 YRENSKASWVRRI-QEPGKNGQFPPIPSITWEHAGRYHCQYSHNHS-SEYSDPLELVYTG 118
 DB 61 YREKKTALMTIRIPQELVKKQFPPIPSITWEHAGRYHCQYSHNHS-SEYSDPLELVYTG 120
 QY 119 AYSKPTLSALSPSVYTLGAGNVTLQCVSQAFAFDGFLCKEGEDHPQRLNSHARGSWMA 178
 DB 121 AYSKPTLSALSPSVYTLGAGNVTLQCVSQAFAFDGFLCKEGEDHPQRLNSHARGSSRA 180
 QY 179 IFSVGPVSPSRMSRYCAVYDSNSPYWLSPSDLLELVPGVSKKSLSVQPGPVVAPGE 238
 DB 181 IFSVGPVSPSRMSRYCAVYDSNSPYWLSPSDLLELVPGVSKKSLSVQPGPVVAPGE 240
 QY 239 SLTLCQVSDVGYDFVLYKEGERDFLQRPQAPAGISQANFTLGPVSPSHGQYRCYSA 298
 DB 241 KLTFOCGSDAGYDFVLYKEGERDFLQRPQAPAGISQANFTLGPVSPSHGQYRCYSA 300
 QY 299 NHTLSWSWASPSDPLDILLTGQFIDRSLSVQPYPTVAPAGNVTLICQSHGQFHTTLLTKE 358
 DB 301 NHTLSWSWASPSDPLDILLTGQFIDRSLSVQPYPTVAPAGNVTLICQSHGQFHTTLLTKE 360
 QY 359 GAGHPLHLRSEHQAQONQAEFRMGVTSAHVGYRCVSSSNPYLTLSPEDPLELVYS 418
 DB 361 GAGHPLHLRSEHQAQONQAEFRMGVTSAHVGYRCVSSSNPYLTLSPEDPLELVYS 420
 QY 419 AS 420
 DB 421 GA 422

RESULT 14
 AAM53464
 ID AAM53464 standard; protein; 439 AA.
 XX
 AC AAM53464;
 XX
 DT 17-JUL-1998 (first entry)
 XX
 DE Human gp49 HM43 polypeptide.
 XX
 XX Human; gp49; HM18; HM43; immunoglobulin; immune response; mast cell;
 XX bone marrow; cell-surface member; FcεRI.
 XX
 OS Homo sapiens.
 PN W09809638-A1.
 XX
 PD 12-MAR-1998.
 XX
 PF 05-SEP-1997; 97WO-US015586.
 XX
 PR 06-SEP-1996; 96US-0025846P.
 XX
 PA (BIGHM) BRIGHAM & WOMENS HOSPITAL.
 XX
 PI Katz HR, Arm JP, Castells MC, Austen KF;
 XX
 DR WPI; 1998-193318/17.
 DR N-PSDB; AAV23274.
 XX
 PT Cell-surface member of immunoglobulin super-family, human gp49 - useful
 PT to treat undesired immune responses, especially mast cell-related
 PT diseases.
 XX
 PS Claim 5; Fig 2A-B; 62pp; English.
 XX
 CC The present sequence represents human gp49 polypeptide HM43. The present
 CC invention also describes: (1) a fusion polypeptide comprising a human
 CC gp49 component and FcεRI or a detectable marker; (2) a recombinant
 CC nucleic acid encoding human gp49 or a human gp49-FcεRI fusion as above;
 CC (3) a cell or vector comprising the recombinant nucleic acid as in (2),
 CC and (4) an antibody which selectively binds to gp49. Mammalian gp49 or
 CC its related DNA can be used to treat an undesired immune response,
 CC especially a mast cell-related disease
 XX
 SQ Sequence 439 AA;
 Query Match 63.7%; Score 1754; DB 2; Length 439;
 Best Local Similarity 81.3%; Pred. No. 5,4e-126;
 Matches 343; Conservative 18; Mismatches 59; Indels 2; Gaps 2;
 QY 1 MPTILTVLICTGLSGPRTTHVQAGHLPKPTLMAEPGSIYIOGSPVTLRCQSGIAQAEYHL 60
 DB 1 MPTILTVLICTGLSLDPRTHVQAGLPKPTLMAEPGSIYIOGSPVTLRCQSGLETQYHL 60
 QY 61 YRENSKASWVRRI-QEPGKNGQFPPIPSITWEHAGRYHCQYSHNHS-SEYSDPLELVYTG 118
 DB 61 YREKKTALMTIRIPQELVKKQFPPIPSITWEHAGRYHCQYSHNHS-SEYSDPLELVYTG 120
 QY 119 AYSKPTLSALSPSVYTLGAGNVTLQCVSQAFAFDGFLCKEGEDHPQRLNSHARGSWMA 178
 DB 121 AYSKPTLSALSPSVYTLGAGNVTLQCVSQAFAFDGFLCKEGEDHPQRLNSHARGSSRA 180
 QY 179 IFSVGPVSPSRMSRYCAVYDSNSPYWLSPSDLLELVPGVSKKSLSVQPGPVVAPGE 238
 DB 181 IFSVGPVSPSRMSRYCAVYDSNSPYWLSPSDLLELVPGVSKKSLSVQPGPVVAPGE 240
 QY 239 SLTLCQVSDVGYDFVLYKEGERDFLQRPQAPAGISQANFTLGPVSPSHGQYRCYSA 298
 DB 241 KLTFOCGSDAGYDFVLYKEGERDFLQRPQAPAGISQANFTLGPVSPSHGQYRCYSA 300